PRO BOAT

BLACKJACK 55

Bind-N-Drive™ Gas-Powered Catamaran

BND™

Blackjack 55 Owner's Manual

Gas-Powered Catamaran Boat

Specifications

Total length	61.5 in (1562mm)
Hull length	55 in (1397mm)
Beam	14.75 in (375mm)
Engine	Zenoah G26 Marine
Receiver	Spektrum 2.4GHz Marine
Weight	14.5 lb (6.5 kg)
Propeller	Pro Boat Bronze Alloy

www.ProBoatModels.com

NOTICE: All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit http://www.horizonhobby.com and click on the support tab for this product.

Meaning of Special Language:

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product and NOT a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Introduction

Congratulations on the purchase of your Pro Boat® Blackjack™ 55 catamaran. You are just minutes from one of the most thrilling experiences the radio control hobby has to offer.

The Pro Boat Blackjack 55 is a professionally built, catamaran, fiberglass composite model. Powered by the potent Zenoah™ G26M engine, you will be able to race across the water at speeds in excess of 35 mph!

Read this owner's manual thoroughly. You also need to read the included Zenoah G26 engine manual.

Carefully unpack your Blackjack 55 and examine the boat and its contents. The box should contain the Blackjack 55 and a boat stand. If you are missing any of these items or notice any damage, immediately contact the place of purchase.

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General Guidelines

It is important that you read and follow this instruction manual before you run this exciting boat. Failure to read and understand the manual could result in personal injury, property damage or permanent damage to your boat. It is also important to run your boat responsibly. With proper care and maintenance, you will be able to proudly enjoy your Blackjack 55 for many years to come.

When operating the boat, stay clear of people, full-scale boats, stationary objects and wildlife. It is preferable to operate the Blackjack 55 in low wake, low wind conditions and in areas free of people, wildlife and objects.

Before you operate your model, make sure that your frequency is clear. If someone is operating on the same frequency, both models could go out of control, possibly causing damage to the models or to others. Check all of the hardware, manifold, pipe and propeller for security before and after each run.

If at any time while operating your model you sense any abnormal function, end your operation immediately. Do not operate your boat again until you are certain the problem has been corrected. **Always stay clear of the propeller.**

Additional Required Items

Although the Blackjack™ 55 comes fully assembled and ready for action, you will need a few additional items in order to run your boat. You will need the following:

Evolution® 2-Cycle Oil (EVOX1001Q)
Flex Shaft Lubrication (PRB0100)
CA or Epoxy Glue
Fuel Container
Gasoline (+87 Octane), Ethanol-free
12 AA Alkaline Batteries
(4 for the transmitter and 4 for the receiver)
Spektrum DSM2 Marine Compatible Transmitter

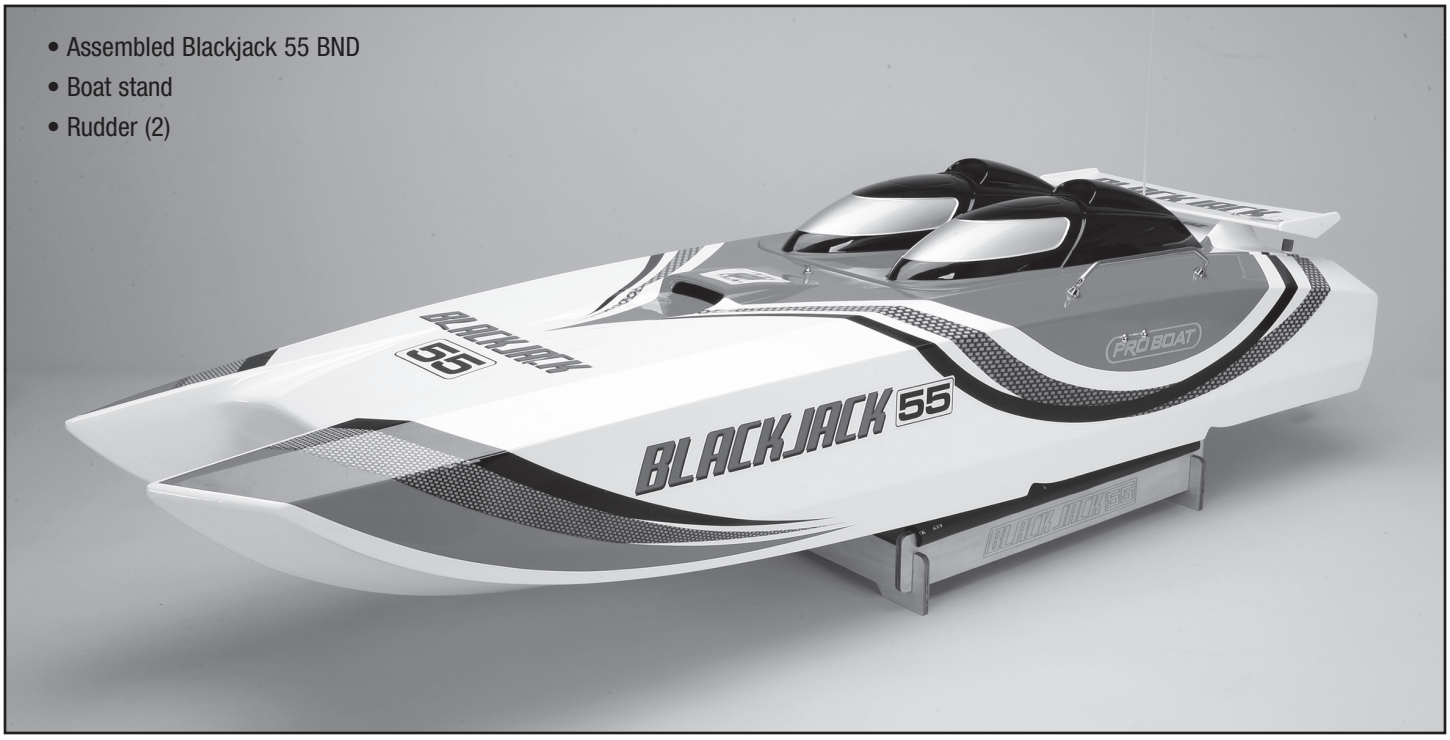
Suggested Field Equipment and Supplies

In addition to the items needed to run the Blackjack 55, we recommend that you carry the following in your field box:

Engine Tuning Screwdriver (DYN3048)
Bronze Alloy Propeller (PRB0153)
2.5mm Hex Wrench
#1 Phillips Screwdriver
Wax
Clean Towels
2mm Hex Wrench
4mm Hex Wrench
Small Crescent Wrench
Screw-locking Compound

Contents

- Assembled Blackjack 55 BND
- Boat stand
- Rudder (2)

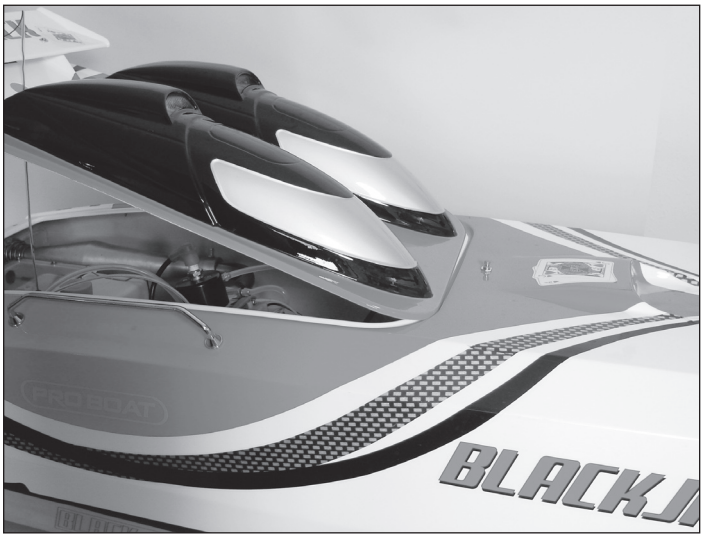


Section 1: Building the Boat Stand

- 1. There are 4 plywood boat stand pieces. The 2 short plywood pieces are the ends of the boat stand.
- 2. Secure the 2 long plywood pieces of the interlocking boat stand to one end of the short plywood pieces. Repeat with the remaining short plywood pieces.
- 3. Secure the stand together where each piece is joined with epoxy or CA glue (not included).

Section 2: Removing the Canopy

- Unscrew the 2 knurled hatch-mounting screws from the rear of the hatch. Slide the front hatch retainer toward the rear of the boat and lift the hatch from the boat.

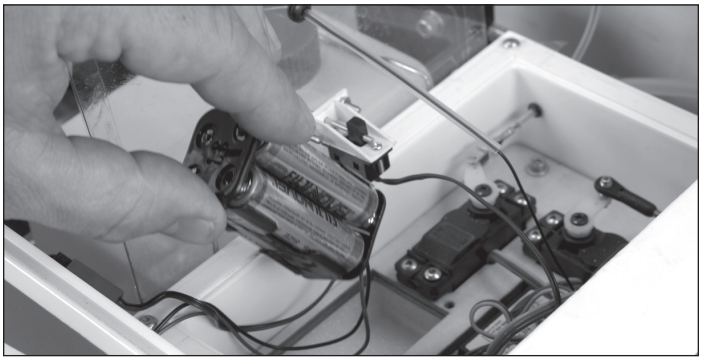


Section 3: Installing the Radio System Batteries

Receiver Batteries

- 1. Remove the ten 2.5mm hex head screws that secure the radio box cover.
- 2. Remove the battery holder and install 4 AA alkaline batteries in the polarity shown on the battery box.

Note: You may consider upgrading to a rechargeable battery pack. We recommend the DYN1453. See your local Pro Boat dealer.



Recommended Radio Equipment

You will need a 2-channel transmitter. We recommend one of the crystal-free, interference-free Spektrum™, Pro Boat or JR® radio systems using DSM® marine technology. Compatible transmitters include:

- DX3E (SPM3160)
- DX2.0 (SPM20220)
- DX3.0 (SPM20320)
- DX2S (SPM2120)
- DX3S (SPM3140)
- Pro Boat Pistol Grip 2.4GHz (PRB8060)
- Spektrum and JR DSM2™ aircraft transmitters

www.spektrumrc.com

Note: The radio system will require binding (linking the receiver to the transmitter). Please see your radio system's manual for binding instructions.

Section 4: Installing the Wing

- 1. Install the wing in the direction shown.
- 2. Use two 3mm x 12mm sheet metal screws and two 3mm washers to secure the wing to the hatch.

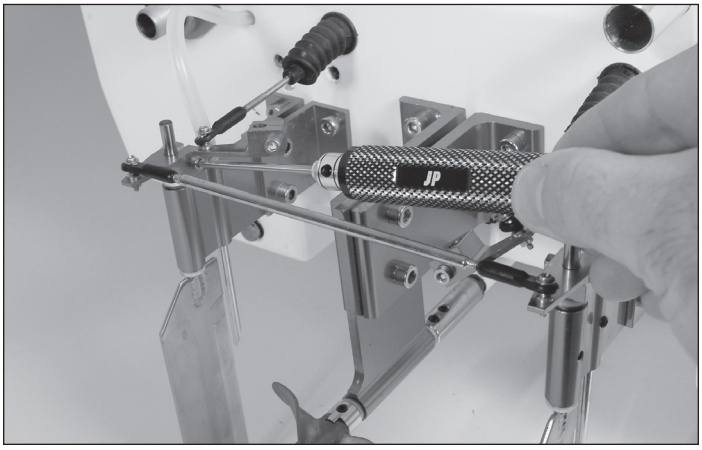
Note: The wing is not intended to be a handle.

Section 5: Installing the Rudder Stabilizer

- 1. Carefully remove the tie wraps holding the rudder control arms and the nylon rudder bushings in place.
- 2. Slide the rudders into the rudder struts with a bushing above and below the strut.
- 3. Position the rudder stabilizer arms as shown with the control arms pointing away from the transom.
- 4. Tighten the 3mm x 15mm hex screws, securing them with 3mm nuts.

Note: Be sure the rudders are parallel with one another and centered before tightening the screws.

Important: Always use screw-locking compound on metal-to-metal fasteners to prevent them from vibrating loose.

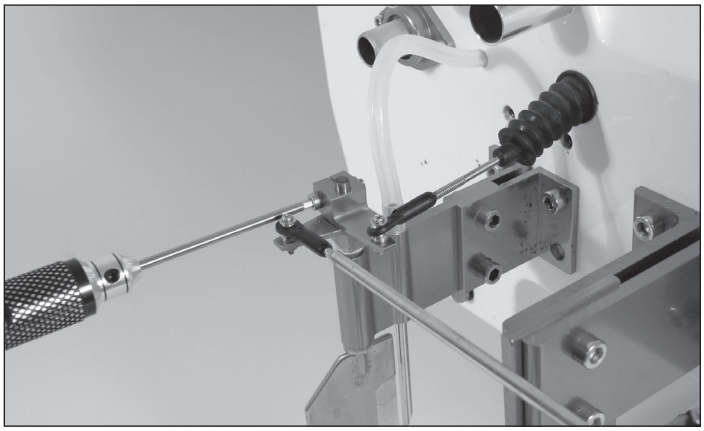


Section 6: Installing the Rudders

- 1. Turn on the transmitter, then the receiver. Center the steering wheel and trim lever. Check that both rudder servos operate using the radio system.
- 2. Slide the rudder control arms onto the rudder shafts.
- 3. Position the rudder control arms at a 90-degree angle to the rudder as shown. Tighten the 3mm x 15mm hex screws, securing them with 3mm nuts.

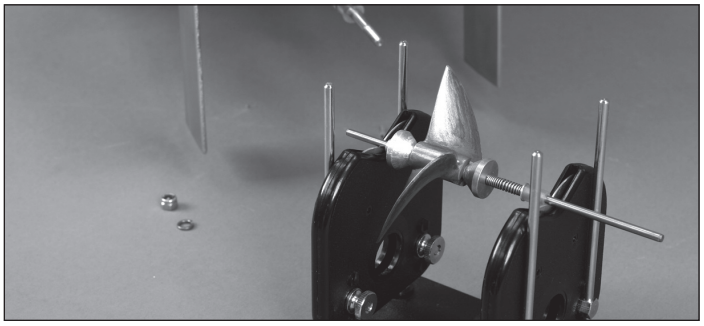
Important: Always use screw-locking compound on metal-to-metal fasteners to prevent them from vibrating loose.

Note: The twin-oversized rudders offer incredible handling and eliminate the need for skid fins. They also help protect the propeller from impact with submerged obstacles in the water. Care must be taken in shallow water to keep the rudders from becoming damaged.



Section 7: Propeller Balancing

For optimum performance, propeller balancing can add several mph to top speed and reduce vibration. There are several different propeller balancing tools available. Read the instructions that accompany the propeller balancing tool, as removing material from the correct part of the propeller is crucial. Contact a local hobby retail store for assistance.



Section 8: Fueling the Tank

Use only Evolution 2-Cycle Synthetic Oil and premium gasoline mixed 32:1 to power the Blackjack 55. Fill the tank completely and secure the fuel cap. Keep fuel in a moisture-free environment, as stale fuel will cause the Zenoah G26M engine to lose performance.

Section 9: Range Checking

Before the first run of the Blackjack 55, you should check the radio for proper operation and to ensure proper control movement of the rudder and throttle. Also ensure that the antenna on the boat is extended properly and that all batteries are in working condition.

- 1. With the radio system turned on (transmitter and receiver) (engine off), walk off 40 to 50 paces from the Blackjack 55.
- 2. Have an assistant remain with the boat to check for proper control movement of the rudder from your transmitter input.
- 3. If everything appears to be operating correctly, start the engine. Place the boat in the water and run it (at about 1/3 throttle) close to the shoreline. If the radio system is operating properly, you can begin to run the boat faster and further away from the shoreline.

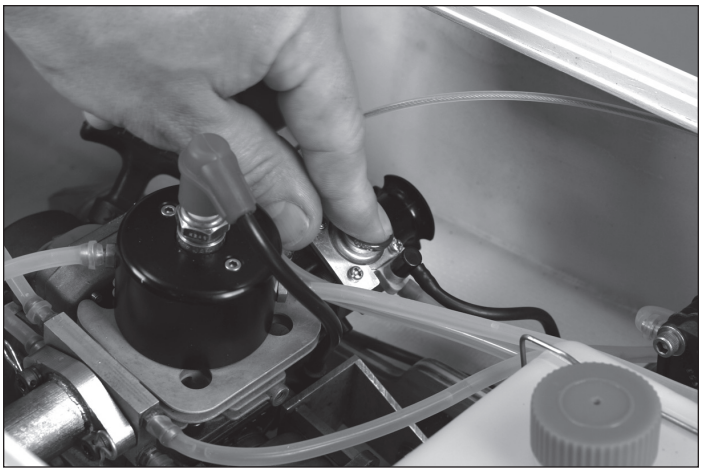
Note: It is a good idea to range check prior to operating your boat after any repair, installation of new batteries, or at the beginning of each boating session.

Section 10: Starting the Engine

Note: The Zenoah G26M carburetor is factory adjusted to deliver optimum performance. See the Zenoah Engine manual for fine-tuning adjustments and other helpful information to make your RC boating experience trouble-free.

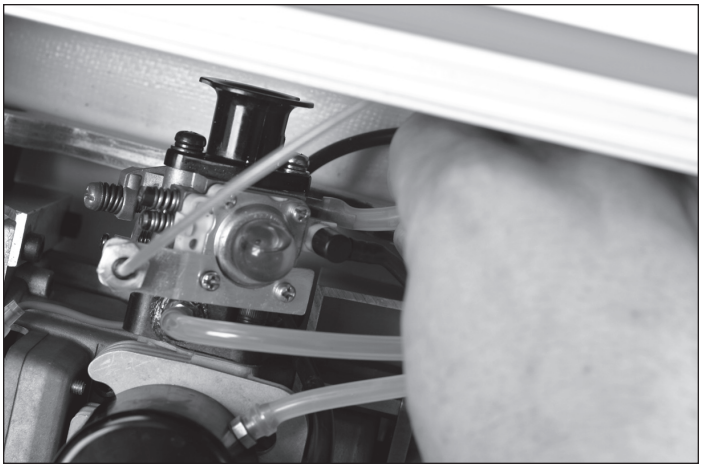
Priming the Engine

Press the priming bulb several times until it becomes filled with fuel. This is not necessary if the engine has recently been run.



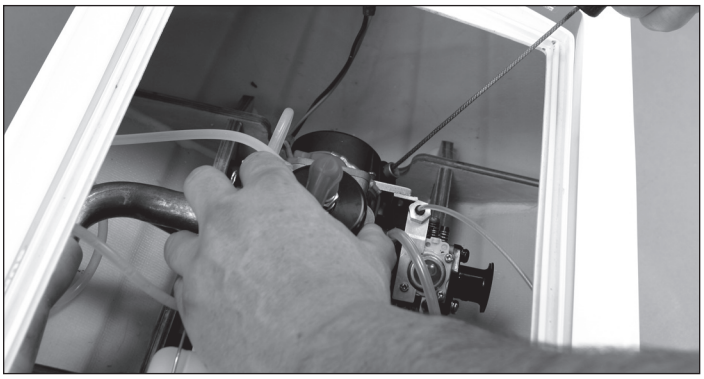
Choking the Engine

Close the choke by rotating the small yellow tubing extension. This is not necessary if the engine is warm.



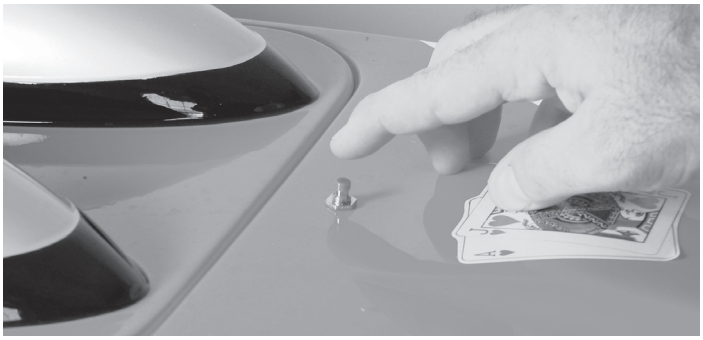
Pull-starting the Engine

With an assistant holding the boat to the boat stand and bracing the engine with one hand, pull the starting cord briskly several times. Once the engine fires (begins to start), partially open the choke. Prolonged choking will flood the engine with fuel until the engine warms up. See Section 15: Troubleshooting Guide to correct the flooding condition.



Section 11: Stopping the Engine

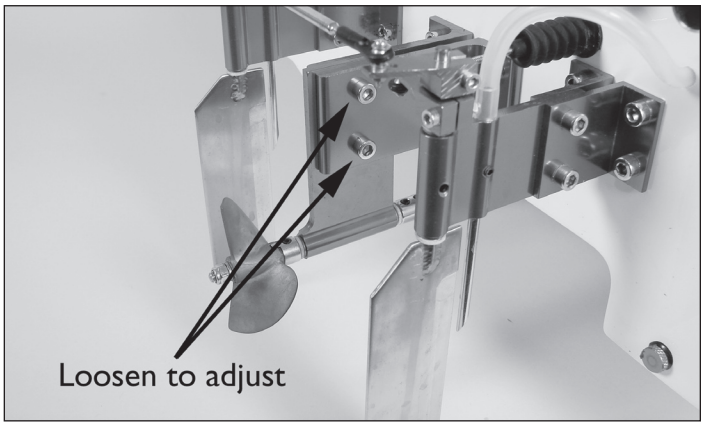
Idle the boat near shore and press the kill switch located on the hull as shown.



Section 12: Handling Adjustments

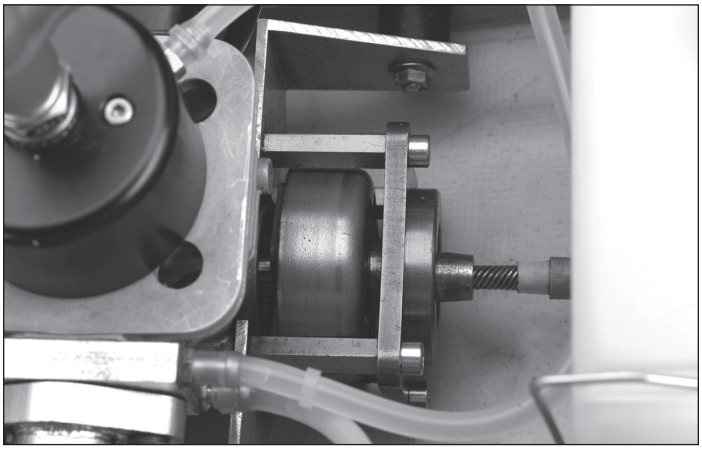
Propeller Trim Angle

You may also adjust the propeller strut to add up or down trim to the propeller by loosening the 2 propeller strut bolts and sliding the propeller strut up to increase top-end speed (but steering response will decrease and cavitation may occur if excessively adjusted). Lowering the trim angle will increase handling performance (but may cause the boat to over-steer and decrease speed).



Section 13: Clutch

- The centrifugal clutch automatically engages when the engine rpm is increased. Be sure that the idle speed adjustment is set low enough so that the propeller does not rotate at idle.
- Periodically disassemble the clutch and clean debris from the clutch shoes and the inner clutch bell with DYN5505 Dynamite® Nitro Force™.



Section 14: Cooling System

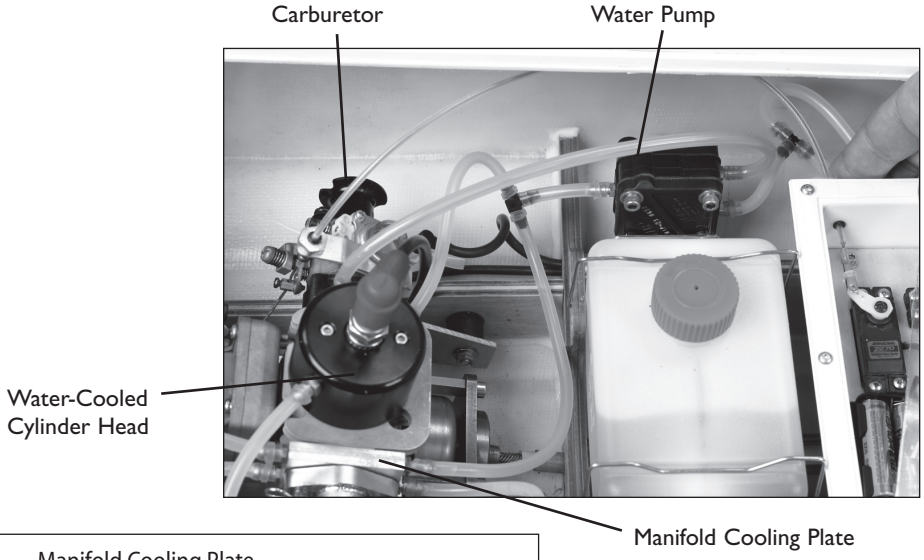
Water Pump

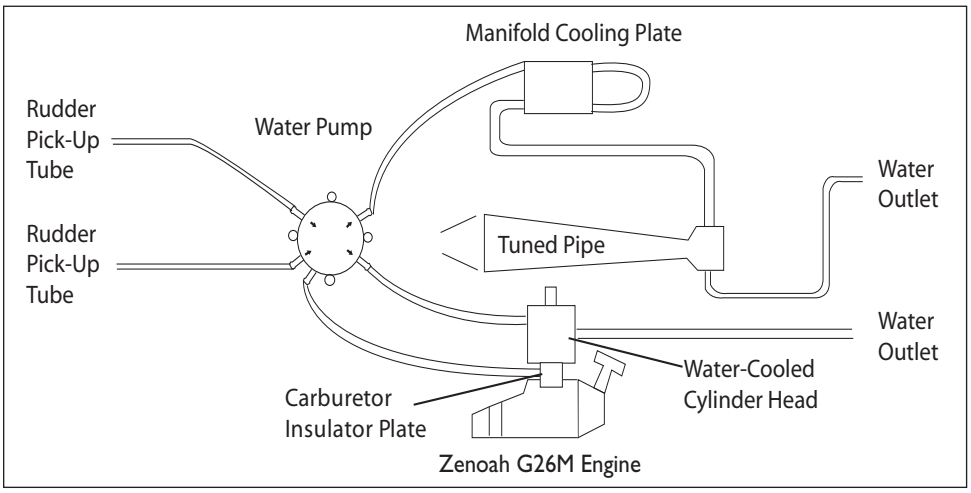
The water pump is operated from crankcase pressure. Be sure that water is exiting the 2 water jackets mounted on the left side of the boat when the engine is running and the boat is in the water. If water does not stream out of either the exhaust or cylinder head cooling ports, immediately stop engine operation and remove obstructions in the lines or replace broken cooling lines.

> **Hint**: To test each cooling line for obstructions or a leak in the cooling system, place a piece of tubing over the water inlet tube in front of each rudder and blow into the tube. When testing for obstructions in the cooling system, be sure to isolate each system by pinching the appropriate water lines.

Water-Cooled Cylinder Head and Exhaust Manifold Cooling Jacket

The exhaust system is cooled independently from the cylinder head. See photo for proper cooling line routing. Do not alter the cooling line routing method.





Section 15: Troubleshooting Guide

Problem	Possible Solution
Engine will not start	Improper needle setting: see Zenoah engine manual; baseline settings are 2 turns out for high-speed, 1 turn out for low-speed Out of fuel: fill fuel tank Improper fuel: use fresh gasoline & Zenoah 2-cycle oil (mixed 32 parts gas to 1 part oil) Bad Spark plug: replace Flooded engine: remove spark plug, invert boat and operate the pull-starter to remove fuel
Engine starts, then dies	Fuel line blocked or broken: connect or replace fuel line Reset needles to baseline setting: see Zenoah instructions
Engine starts and runs for several minutes, then dies	Bad fuel: replace Improper needle settings: see Zenoah engine manual Overheated engine: check for clogged or damaged cooling system Debris in carburetor, disassemble carburetor and clean

Section 16: Hull Care

The hull of the Blackjack 55 is finished using the highest quality paints and the most advanced painting methods available. The base coat/clear cote technique delivers an amazing shine that is as durable as it is beautiful. To keep your Blackjack 55 looking new, you should apply a wax coating as used on automotive finishes to prevent oxidation and to further protect against damage caused by fuel and other harmful chemicals.

Section 17: Maintenance

The Pro Boat Blackjack 55 should provide many hours of exciting high-speed racing fun with just minor maintenance. Preventative maintenance is very important. Taking the time to ensure that all the setscrews and bolts are tight before each operation of the boat will prevent many problems.

Before operating Blackjack 55:

Check that all screws and hardware are securely in place. This is very important, as the manifold screws will occasionally vibrate loose during the initial runs.

Check the propeller for damage in the form of chipping or cracking. If you find any damage, replace the propeller, as the damage will affect the performance of the boat and could also cause safety concerns.

When refueling, always wipe away any excess fuel that may have spilled into or on the boat.

After operating the Blackjack 55:

Wipe off any exhaust residue from the boat. If you operate the Blackjack 55 in salt water, it is suggested that you thoroughly rinse the deck, hull, and all the metal hardware with fresh water, then dry them with a clean towel. After cleaning, coat all metal parts with a silicone spray lubricant. This will help to prevent corrosion.

Ensure that the radio box and equipment inside is dry.

Section 18: Blackjack 55 Replacement Parts

In the event that you need to purchase replacement parts for your engine or the Blackjack 55, please see your local hobby store. You can also purchase them from Horizon Hobby by calling 1-800-338-4639 or shopping online at www.horizonhobby.com.

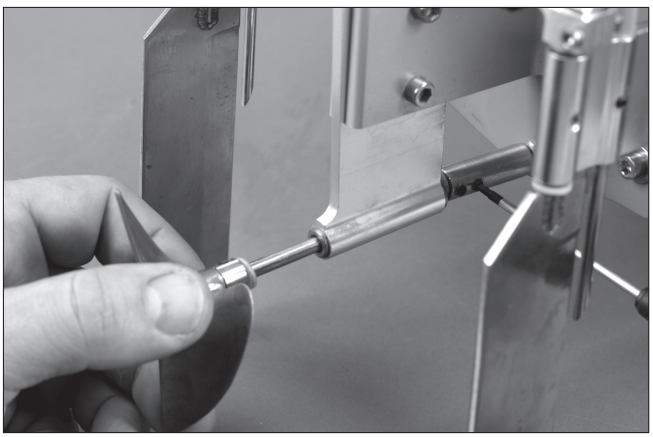
Stock #	Description
PRB2851	Hull Only
PRB2852	Canopy
PRB2655	Servo Tray
PRB2853	Boat Stand
PRB2657	Radio Box Cover
PRB2658	Fuel Tank
PRB2659	Kill Switch
PRB2660	Motor Mounting Plates
PRB2661	Manifold Cooling Plate
PRB2662	Manifold
PRB2663	Throttle Cable
PRB2664	Radio Box
PRB2665	Vibration Dampener
PRB2666	Tuned Pipe
PRB2855	Canopy Mounting Nut
PRB2669	Pushrod Bellow
PRB2670	Rudder Pushrods
PRB2671	Receiver Switch Mount
PRB2672	Flex Shaft
PRB2673	Flex Shaft Liner
PRB2281	Drive Dog
PRB2856	Rudder Strut with Bracket
PRB2857	Rudder Control Arm
PRB2677	Rudder
PRB2679	Cooling Tubing
PRB2680	Ball Linkage Set
PRB2854	Exhaust Port
PRB2683	Clutch
PRB2651	Water Pump with Bracket
PRB2684	Clutch Shoes
PRB2687	Clutch Springs
PRB2688	Clutch Bearing
PRB2858	Prop Strut with Bracket
PRB2690	Prop Shaft Nylon Bushing
PRB2691	Exhaust Spring
PRB2692	Throttle Cable Mount
PRB2693	Fuel Tank Straps
PRB2694	Stuffing Box
PRB2291	Propeller Nut
PRB0153	Bronze Alloy Propeller
PRB2282	Prop Shaft
PRB2068	Water Outlet
PRB2239	Drain Plug
PRB2695	Exhaust O-Ring Set
PRB0100	Grease Gun with Marine Grease
PRB0101	Marine Grease 5 oz
PRB2861	Decal
PRB2859	Hull Handle

Section 19: Flex Shaft Lubrication

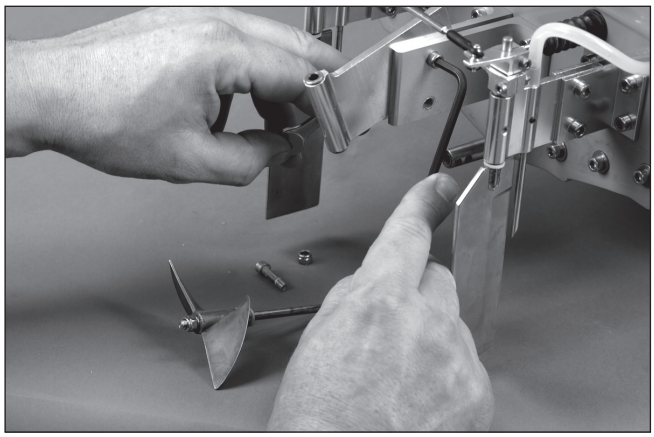
Pro Boat recommends PRB0100 Grease Gun with Marine Grease.

❍ 1. The flexshaft should be lubricated after each day of use. Failure to clean and lubricate the flex shaft may cause it to rust and shorten the life of the flex shaft.

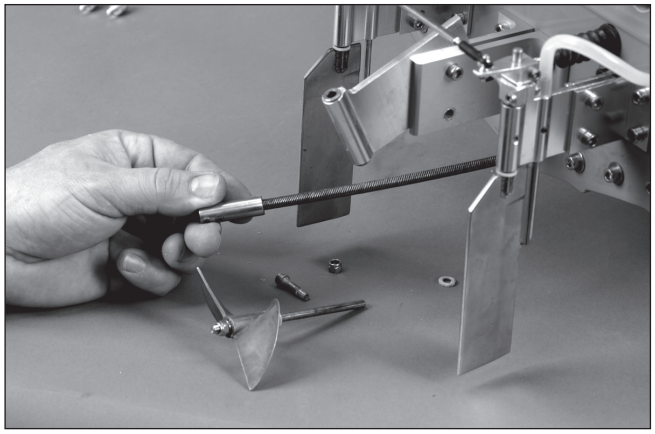
Loosen the two 1.5mm setscrews on the brass ferrule located in front of the propeller strut and remove the propeller shaft assembly from the rear. Note that there is a nylon bushing located on either end of the propeller strut.



❍ 2. Remove the lower propeller strut mounting bolt and loosen the top bolt. Rotate the propeller strut upwards to access the flex shaft.



❍ 3. Slide the flex shaft out of the boat.



❍ 4. Lubricate the flex shaft with flex shaft grease (see your local hobby shop). Reinstall in reverse order. Be sure to reinstall the nylon washers in front and behind the propeller strut.

Warranty and Repair Policy

Warranty Period: Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty: Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for all warranty claims.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any Product by Purchaser must be approved in writing by Horizon before shipment.

Damage Limits: HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

WARRANTY SERVICES

Questions, Assistance, and Repairs: Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a Product Support representative. You may also find information on our website at www.horizonhobby.com.

Inspection or Repairs: If this Product needs to be inspected or repaired, please use the Horizon Online Repair Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Repair Request is available at www.horizonhobby.com http://www.horizonhobby.com under the Repairs tab. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for repair. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Notice: Do not ship batteries to Horizon. If you have any issue with a battery, please contact the appropriate Horizon Product Support office.

Warranty Inspection and Repairs: To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Repairs: Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for inspection or repair, you are agreeing to Horizon's Terms and Conditions found on our website under the Repairs tab.

Country of Purchase	Horizon Hobby	Address	Phone Number/ Email
United States	Horizon Service Center (Electronics and engines) Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 Online Repair Request visit: www.horizonhobby.com/repairs
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Technischer Service	Hamburger Str. 10 25335 Elmshorn Germany	+49 (0) 4121 46199 66 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron France	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com

Compliance Information for the European Union

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2010102802

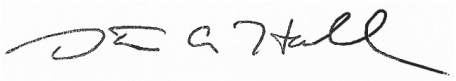
Product(s): Blackjack 55 Catamaran BND
Item Number(s): PRB2850BD

Equipment Class: 1

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC:

EN 301 489-1, 301 489-17 General EMC requirements

Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
October 27, 2010



Steven A. Hall
Vice PresidentInternational Operations and Risk Management
Horizon Hobby, Inc.

Instructions for Disposal of WEEE by Users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Konformitätshinweise für die Europäische Union

Konformitätserklärung gemäß Gesetz über Funkanlagen und Telekomunikationseinrichtungen (FTEG) und der Richtlinie 1999/5/EG (R&TTE)

Declaration of conformity in accordance with the Radio and Telecommunications Terminal Equipment Act (FETG) and directive 1999/5/EG (R&TTE)

Horizon Hobby GmbH
Hamburger Straße 10
D-25337 Elmshorn

erklärt das Produkt: declares the product:	Blackjack 55 Catamaran BND PRB2850BD
Geräteklasse: equipment class	1

den grundlegenden Anforderungen des §3 und den übrigen einschlägigen Bestimmungen des FTEG (Artikel 3 der R&TTE) entspricht.
complies with the essential requirments of §3 and other relevant provisions of the FTEG (Article 3 of the R&TTE directive).

Angewendete harmonisierte Normen:
Harmonised standards applied:

EN 60950	Gesundheit und Sicherheit gemäß §3 (1) 1. (Artikel 3(1)a) Health and safety requirments pursuant to §3 (1) 1.(article 3(1)a))
EN 301 489-1	Schutzanforderungen in Bezug auf elektromagnetische Verträglichkeit §3 (1) 2, (Artikel 3 (1) b))
EN 301 489-17	Protection requirement concerning electromagnetic compatibility §3 (1) 2, (article 3 (1)b))
EN 300 328	Maßnahmen zur effizienten Nutzung des Frequenzspektrums § 3 (2) (Artikel 3 (2)) Measures for the efficient use of the radio frequency spectrum § 3 (2) (Article 3 (2))

CE

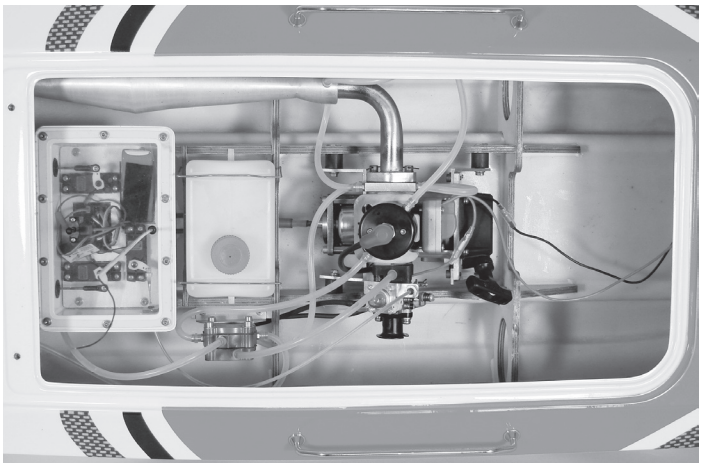
Elmshorn, 31.08.2010

Steven A. Hall
Geschäftsführer
Managing Director

Birgit Schamuhn
Geschäftsführerin
Managing Director

Section 20: Appendix

Photo 1



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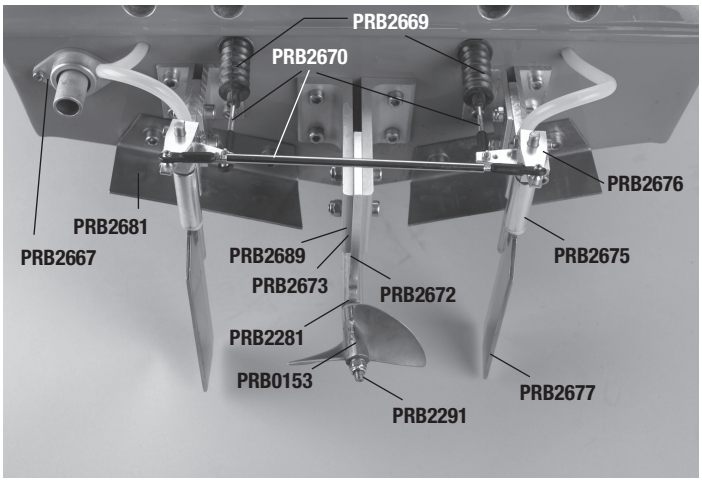

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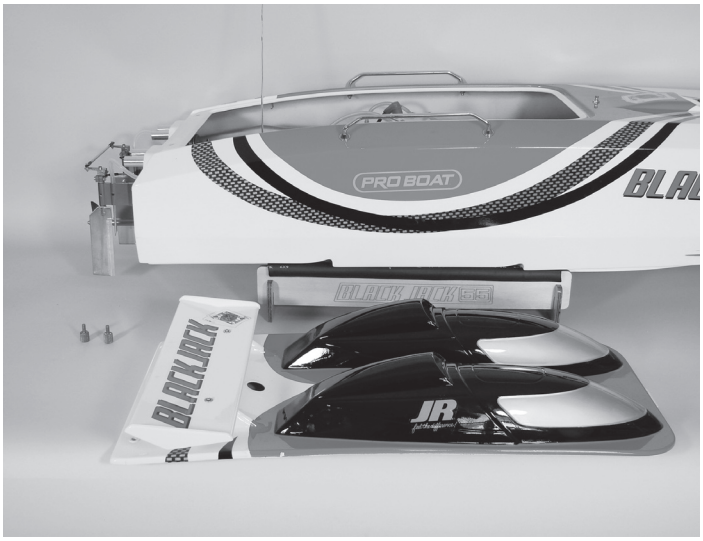

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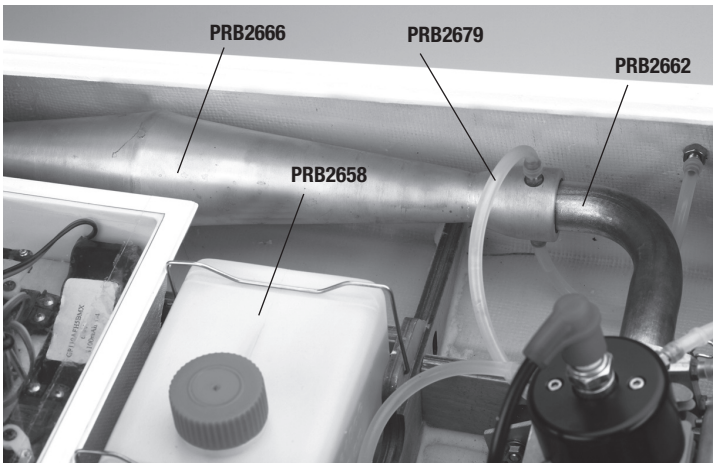

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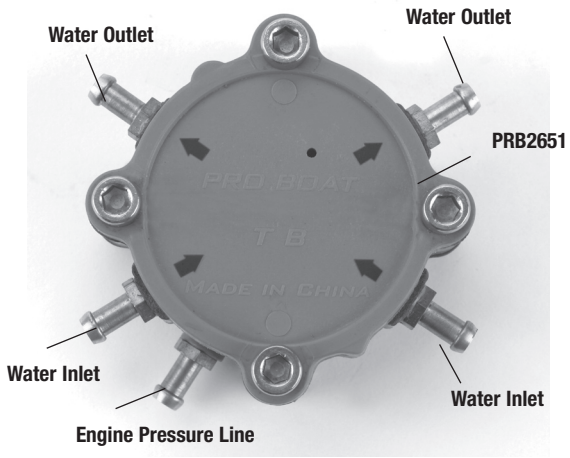

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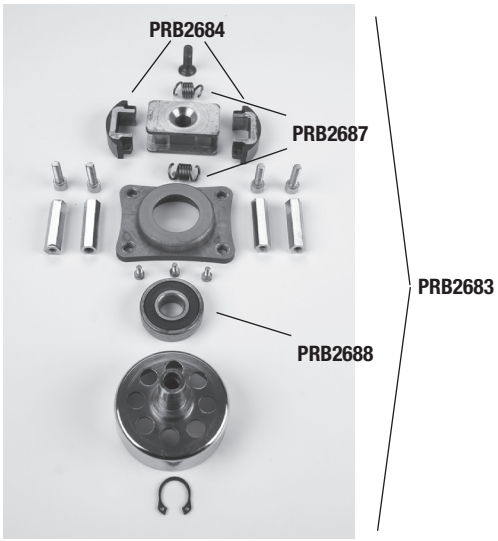

www.ProBoatModels.com

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